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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.		
10/045,799	01/10/2002	Erwin Roy John	50124/00303 5663		
30636 FAY KAPLUN	7590 04/03/2007 J & MARCIN, LLP		EXAMINER NASSER, ROBERT L		
150 BROADV	VAY, SUITE 702				
NEW YORK, NY 10038			ART UNIT	PAPER NUMBER	
			3735		
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MC	NTHS	04/03/2007	PAPER		

## Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Application No.   Applicant(s)						$\epsilon$			
Examiner   Robert L. Nasser   3735			Application No.		Applicant(s)				
Robert L. Nasser  3735  Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Editessors of time may be evaluable under the provisions of 37 CFR 1.134(b). Inn cevent, however, may a may be timely fined after 31x, 80,0km15 from the mining date of this communication.  If NO period for reply is specified above, the meantum statutory period will apply and will apply as SIX (6) MONTHS from the mining date of this communication.  If NO period for reply is specified above, the meantum statutory period will apply and will apply as SIX (6) MONTHS from the mining date of this communication.  If NO period for reply is specified above, the meantum statutory period will apply and will apply as SIX (6) MONTHS from the mining date of this communication.  If NO period for reply is specified above, the meantum statutory period will apply and will apply and will apply as SIX (6) MONTHS from the mining date of this communication, even it smelly filled, may reduce any carried placet term adjustment. See 37 CFR 1.794(b).  Status  1)  Responsive to communication(s) filled on 15 February 2007.  2a)  This action is FINAL.  2b)  This action is final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 45-47 (s13 are allowed.  6)  Claim(s) 45-47 (s13 are allowed.  6)  Claim(s) 45-47 (s13 are allowed.  6)  Claim(s) 49-95, 52.54, 55, 65, 66, 68 and 69 is/are rejected.  7)  Claim(s)  are subject to restriction and/or election requirement.  Application Papers  9)  The specification is objected to by the Examiner.  Application Papers  9)  The specification is objected to by the Examiner.  10)  The drawing(s) flied on  is/are: a) coccepted or b) objected to by the Examiner.  Application paper so the priodity documents have been received.	Office Action Summary		10/045,799		JOHN ET AL.				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address − Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be evaluated under the provision of 37 CFR 1:1861. In or event, however, may a reply be timely filled.  **Extension of time may be evaluated under the provision of 37 CFR 1:1861. In or event, however, may a reply be timely filled.  **If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (8) MONTH'S from the mailing date of this communication.  **Failute for provision by the office is like than these months about the mailing date of the communication, even it timely filled.  **Failute for provision by the office is like than these months after the mailing date of the communication, even it timely filled.  **Provision of Claims**  1) □ Responsive to communication(s) filled on 15 February 2007.  2a) □ This action is FINAL.  2b) □ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  **Disposition of Claims**  4) □ Claim(s) 45-49.51.52.54.55.65.66.68 and 69 is/are pending in the application.  4a) Of the above claim(s) □ is/are allowed.  6) □ Claim(s) 45-47 is/are allowed.  6) □ Claim(s) 48-49.51.52.54.55.66.68 and 69 is/are rejected.  7) □ Claim(s) ■ safer objected to.  8) □ Claim(s) 48-49.51.52.54.55.65.66.68 and 69 is/are rejected.  7) □ Claim(s) 48-49.51.52.54.55.65.66.68 and 69 is/are rejected.  10 □ The drawing(s) filed on □ is/are: a) □ scoepted or b) □ objected to by the Examiner.  Application Papers  9) □ The specification is objected to by the Examiner.  10 □ The drawing(s) filed on □ is/are: a) □ scoepted or b) □ objected to			Examiner		Art Unit				
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WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be analished under the provisions of 37 CPR 1.13(6). In overent, nover, may a may be interprised after 30 (6) MONTHS from the mailing date of this communication.  Failube to proj within the set or textended period for explexibility of the provision of the communication. Page 10 (1) MONTHS from the mailing date of this communication.  Failube to proj within the set or textended period for regy with by featior, cause the application to become MADANDHO (3) st. 05 (5) (133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any seared page 11.  1) □ Responsive to communication(s) filed on 15 February 2007.  2a) □ This action is FINAL.  2b) □ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) 45-49.51.52.54.55.65.66.68 and 69 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) 45-47 is/are allowed.  6) □ Claim(s) 45-47 is/are allowed.  6) □ Claim(s) is/are objected to.  9) □ The specification is objected to by the Examiner.  10 □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.  Application Papers  9) □ The specification is objected to by the Examiner.  10 □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.  Application Papers  9) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) □ All b) □ Some * □ □ None of □ None	Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover s	heet with the c	orrespondence addi	ress			
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The examiner notes that applicant's comments concerning Yasushi have been found persuasive. Accordingly, the finality of the previous action is hereby withdrawn and the following non-final action entered.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 48, 49, 51 and 68 are rejected under 35 U.S.C. 103(a) as being unpatentable over in view of in view of Yanaqidaira et al 5954629 in view of Yasushi et al 5241967 and Devito. Yanagidaira shows active electrode 12 on a headband 11 that produces eeg signals, an amplifier 24 amplifying the eeg signals, a selectively adjustable filter (see column 4, lines 55-64), that has a center frequency which is adjusted which separates a frequency band (alpha) from the spectrum of frequency bands. It does not have a tone generator. However, Yasushi teaches an identical device that includes and a tone generator 14 producing an audio output corresponding to the signal to help the user to provide feedback and encouragement to the user. As such, it would have been obvious to modify Yanagidaira et al to use such a tone generator, to enhance the evoking of the desired brain waves. The combination does not have the telemetric communication means. DeVito shows a wireless EEG headband device that includes an amplifier mounted on the headband. It would have been obvious to modify the above combination to use such a telemetric communication, as it is merely the substitution of one known communication medium for another. In

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addition, it would have been obvious to provide the headband structure of Devito, as it is merely the substitution of one known equivalent EEG electrode device for another.

Claims 48, 49, 51, 52, 55, 59, 65, and 68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Itil et al 5357957 in view of MacNichol Jr 3807387 and Lee 4454886. Itil et al shows a connection means, i.e. a headset which includes a headband, mounting eeg electrodes to the body for measuring eeg signals, wireless radio transmitter (column 6, lines 13-26), to transmit the eeg signals to a remote receiver, and a remote receiver which receives the signals and processes them to identify brain function and/or dysfunction (column 1, lines 25-28). In addition, the processing system, connected to the receiver includes an amplifier and a selectively adjustable filter (see column 6, lines 1-30). The examiner notes the features of the processing mention in the first modified embodiment at the top of column 6 are inherently included in the wireless embodiment discussed in the second paragraph of column 6. The system includes an output device, i.e. crt display, for displaying brain function. It does not specifically state that it identifies brain injury. However, MacNichol teaches that it is well know to use an EEG signal to identify brain death (injury). Hence, it would have been obvious to modify Itil to identify brain death, as it is merely the substitution of one well known use of an EEG for another. In addition, the combination does not specifically state that it produces an audible warning when injury is detected. It does not specifically state that it identifies brain injury. Lee teaches that an audible output based on the brain waves is better as it allows the physician to immediately identify changes in the brain wave signals and it is easier to understand than a complex

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waveform. As such, it would have been obvious to modify the above combination to use an audible output, to simplify analysis of the brain waves.

Claims 54 and 66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Itil in view of MacNichol Jr and Lee, as applied to claims 48. 49, 51, 52, 55, 59, 65, and 68 above, further in view of Zimmerman et al 5279305. Zimmerman shows an EEG processing system including a headband with electrodes 23, 24 and 25 including a positive and negative electrode. In addition, it is inherent that there is a ground. Hence, it would have been obvious to modify the above combination to use such an electrode arrangement, as it is merely the substitution of one known configuration of electrodes for another. Claim 66 is rejected in that applicant has not stated that the specific number of electrode sand amplifiers is for a specific purpose or that they solve a stated problem. As such, it appears that the exact number of electrodes and amplifiers would have been a mere matter of design choice for one skilled in the art.

Claim 69 is rejected under 35 U.S.C. 103(a) as being unpatentable over Itil et al in view of MacNichol Jr and Lee, as applied to claims 48, 49, 51, 52, 55, 59, 65, and 68 above, further in view of, further in view of John 5287859. John further teaches that split-half rectification is a known processing technique to identify brain dysfunction. As such, it would have been obvious to modify the above combination to use such a technique, as it is merely the substitution of one known equivalent processing technique for another.

Claims 45-47 are allowed. Claims 45-47 define over the art of record in that none of the art compares the F ratio in the presence and absence of stimulation with

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control data to diagnose injury or dysfunction of the spinal cord, brain stem, or brain, as claimed.

Applicant's arguments filed 2/5/2007 have been fully considered but they are not persuasive.

Applicant's comments on the rejection based on Yasushi are moot in view of the new grounds of rejection.

Applicant has asserted that Itil does not disclose a sound generator. The examiner agrees, but notes Itil is used in an obviousness combination.

Applicant has asserted that lee does not have a selectively adjustable or a sound generator. Again, the examiner aggress, but notes that there is no requirement that each reference of a combination have each feature of the claims. Indeed, that would obliterate 35 U.S.C. 103.

Applicant has further asserted that cerebral death is not brain dysfunction. The examiner notes that there is no definition of brain dysfunction on the record and that a person who suffered cerebral death would have a brain that is not functioning normally.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert L. Nasser whose telephone number is 571 272-4731. The examiner can normally be reached on m-f 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor II can be reached on 571 272-4730. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Robert L. Nasser Primary Examiner Art Unit 3735

RLN March 20, 2007 Ruts nasoy